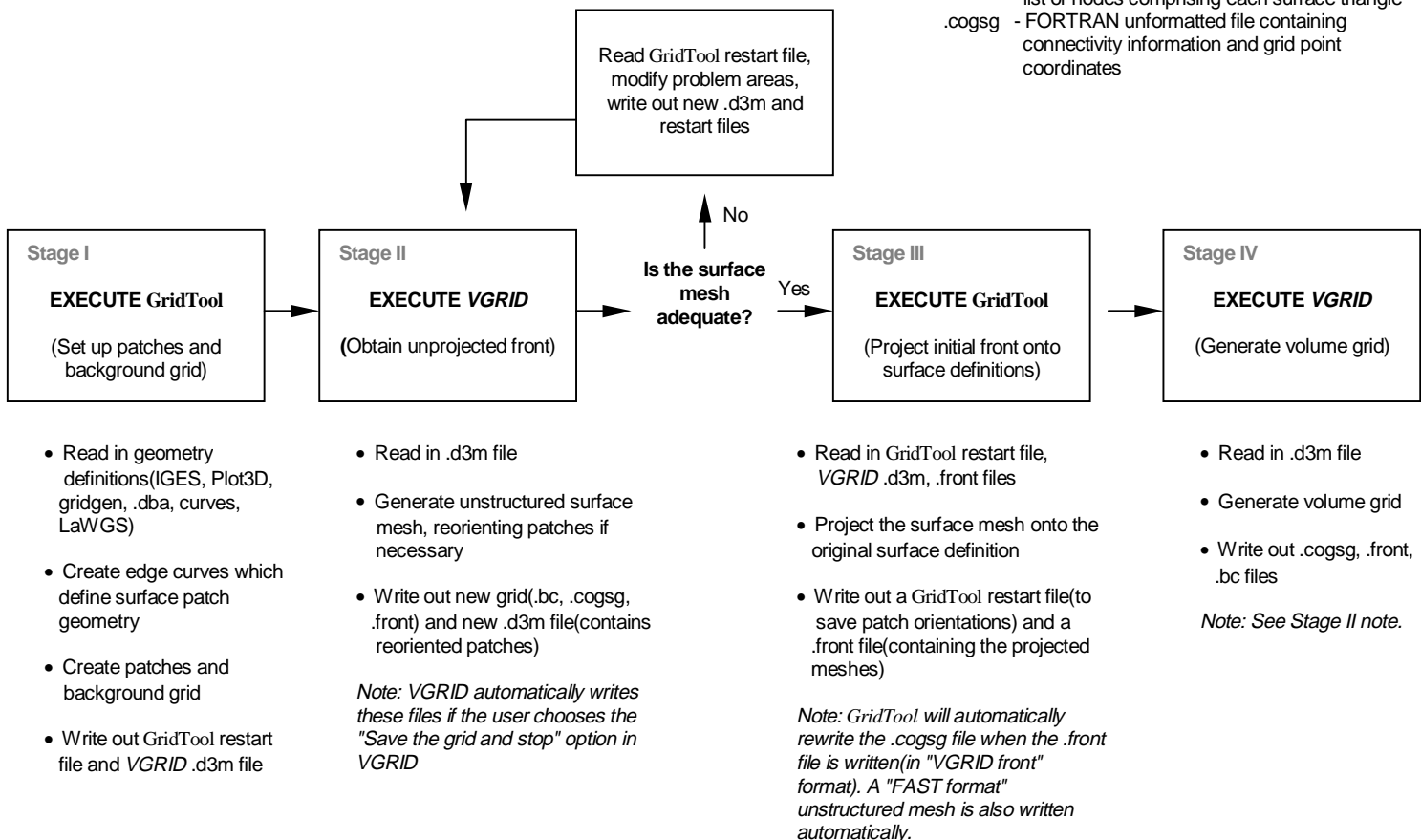


## GridTool/**VGRID** Event Sequence

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### File Nomenclature:

.d3m - *VGRID* input file  
 .mapbc - List of patches and boundary conditions on each  
 .bc - List of surface triangles, node numbers, and the  
 surface patch on which each lies  
 .front - List of unprojected coordinates of each node, and  
 list of nodes comprising each surface triangle  
 .cogsg - FORTRAN unformatted file containing  
 connectivity information and grid point  
 coordinates



### General Comments:

- When generating an inviscid mesh, the volume grid generation process may be performed entirely in batch mode. When generating a viscous mesh, the generation of the viscous portion of the volume grid must be done interactively.
- During viscous grid generation, it is recommended that the viscous portion of the volume mesh be written out before proceeding to the inviscid portion. Once saved, the user should again run *VGRID* and generate the inviscid portion of the mesh.
- Since the user does not know *a priori* how many tetrahedra will result from the volume mesh generation process, it is suggested that the user proceed from Stage II to Stage IV to generate a volume. This will determine if the tetrahedron count is "too large" as well as point out problems requiring re-gridding and thus a return to Stage I.
- It is good practice to save the unprojected surface mesh file from Stage II prior to proceeding to Stage III in case a resulting volume mesh proves unacceptable as a consequence of projection.